BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- Construction of Drains and Culverts in Ward No. 13, (Doddabommasandra).

Estimation Cost.Rs 2000000.00

No	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)	Cum							
	New Culvert		15	5.90	2.00	1.20	212.40		
	Basic rate	186.00	✓						
	Area weightage 10%	18.60							
	Sub Total	204.60							
	Total						**212.40**	204.60	**43457.00**
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)	Cum							
	For Culvert		15	5.90	1.80	0.15	23.89		
	Issued Rate 07-07-2022 Basic rate	5554.00	✓						
	Area weightage 10%	555.40							
	Sub Total	6109.40							
	Total						**23.89**	6109.40	**145954.00**
3	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) **Item No. 5.4, Page No. 9, Vol - II PWD SR 2021-22**	Cum							
	New Culvert								
	1st Course								

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	Description of work	Unit	Mesurement No.	L	B	D	Qty.	Rate	Amount
			15x2	5.90	0.60	0.45	47.79		
	2nd Course								
			15x2	5.90	0.45	0.45	35.84		
	Basic rate	5422.00							
	Area weightage 10%	542.20							
	Sub Total	5964.20							
	Total						**83.63**	5964.20	**498801.00**
4	Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification. **Item No. 21.10 Page No. 190, Vol - II PWD SR 2021-22**	Sqm							
	Pointing		15x2	5.90		0.90	159.30		
	Basic rate	238.00							
	Area weightage 10%	23.80							
	Sub Total	261.80							
	Total						**159.30**	261.80	**41705.00**
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour. Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.4))**	Cum							
	Culvert Coping		15	5.90	1.50	0.10	13.28		
	Ramp		15x2	5.90	1.00	0.15	26.55		
	Issued Rate 07-07-2022 Basic rate	5728.00							
	Area weightage 10%	572.80							
	Sub Total	6300.80							
	Total						**39.83**	6300.80	**250929.00**
6	Providing and Fixing pre cast Covering Slab 230 mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc. complete. As per Engineer incharge	Sqm							
	For Culvert		15	5.90	1.50		132.75		

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	Description of work	Unit	rement B	D	Qty.	Rate	Amount
	Data rate	5037.00					
	Total				132.75	5037.00	668662.00
7	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)	Cum					
	Qty Vide 90% of Item No- (1+8+15)				195.41		
	Total				195.41	81.40	15906.00
	Basic rate	74.00					
	Area Weightage 10%	7.40					
	Total	81.40					
8	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)	T.Km					
	Qty frm Item No-7		195.41	1.28	250.12		
	Total				250.12	115.50	28889.00
	15Km 7*15	105.00					
	Area Weightage 10%	10.50					
	Total	115.50					
						Grand Total	1694303.00
						GST Charges (18% of estimated cost)	304975.00
						Miscellenious and rounding	722.00
						Total Amount	2000000.00

Rupees Twenty Lakh(s) Only

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2021-22, Issue rates and Data Rates.

Assistant Engineer
Ward No. 13, Doddabommasandra

Assistant Executive Engineer
Vidyaranyapura Sub Division

Executive Engineer
Byatarayanapura Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Administrative Approval
Accorded For 20.00 lakhs only
Head of A/C P3726
CER NO 115 Dt: 16/09/22

EA EE (UK)

TECHNICAL SANCTION
Accorded For Rs. 20.00 Lakhs only
Head of A/c P3726
Div. Ref. No. 50 Date 16/09/22

AE EE(BTP)

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